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FEE TRANSMITTAL for FY 2004

Effective 10/01/2003. Patent fees are subject to annual revision.

☐ Applicant Claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$180.00)

Complete if Known

Application Number	10/653,520
Filing Date	September 2, 2003
First Named Inventor	Kimmel et al.
Examiner Name	Ngoclan Thi Mai
Art Unit	1742
Attorney Docket No.	00138CIPCON (3600-360-01)

METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account

Deposit Account Number
Deposit Account Name

03-0060

Cabot Corporation

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) or any underpayment of fee(s)

☐ Charge fee(s) indicated below, except for the filing fee

to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
1001	770	2001	385	Utility filing fee	
1002	340	2002	170	Design filing fee	
1003	530	2003	265	Plant filing fee	
1004	770	2004	385	Reissue filing fee	
1005	160	2005	80	Provisional filing fee	

SUBTOTAL (1) (\$0.00)

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Extra Claims	Fee from below	Fee Paid
Independent Claims	-20**=	X	
	-3**=	X	
Multiple Dependent			

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description
1202	18	2202	9	Claims in excess of 20
1201	86	2201	43	Independent claims in excess of 3
1203	290	2203	145	Multiple dependent claim, if not paid
1204	86	2204	43	**Reissue independent claims over original patent
1205	18	2205	9	**Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$0.00)

** or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code	Large Entity Fee (\$)	Small Entity Fee Code	Small Entity Fee (\$)	Fee Description	Fee Paid
1051	130	2051	65	Surcharge - late filing fee or oath	
1052	50	2052	25	Surcharge - late provisional filing fee or cover sheet	
1053	130	1053	130	Non-English specification	
1812	2,520	1812	2,520	For filing a request for ex parte reexamination	
1804	920*	1804	920*	Requesting publication of SIR prior to Examiner action	
1805	1,840*	1805	1,840*	Requesting publication of SIR after Examiner action	
1251	110	2251	55	Extension for reply within first month	
1252	420	2252	210	Extension for reply within second month	
1253	950	2253	475	Extension for reply within third month	
1254	1,480	2254	740	Extension for reply within fourth month	
1255	2,010	2255	1,005	Extension for reply within fifth month	
1401	330	2401	165	Notice of Appeal	
1402	330	2402	165	Filing a brief in support of an appeal	
1403	290	2403	145	Request for oral hearing	
1451	1,510	1451	1,510	Petition to institute a public use proceeding	
1452	110	2452	55	Petition to revive - unavoidable	
1453	1,330	2453	665	Petition to revive - unintentional	
1501	1,330	2501	665	Utility issue fee (or reissue)	
1502	480	2502	240	Design issue fee	
1503	640	2503	320	Plant issue fee	
1460	130	1460	130	Petitions to the Commissioner	
1807	50	1807	50	Processing fee under 37 CFR 1.17(q)	
1806	180	1806	180	Submission of Information Disclosure Stmt	180.00
8021	40	8021	40	Recording each patent assignment per property (times number of properties)	
1809	770	2809	385	Filing a submission after final rejection (37 CFR 1.129(a))	
1810	770	2810	385	For each additional invention to be examined (37 CFR 1.129(b))	
1801	770	2801	385	Request for Continued Examination (RCE)	
1802	900	1802	900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$180.00)

SUBMITTED BY

Name (Print/Type) Luke A. Kilyk

Registration No. (Attorney/Agent)

33,251

Complete (if applicable)

Telephone

1-540-428-1701

Signature

Date

October 8, 2004

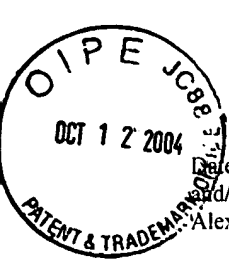
WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.

This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Date: October 8, 2004 I hereby certify that, on the date indicated above, I deposited this paper with identified attachments and/or fee with the U.S. Postal Service and that it was addressed for delivery to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 by "First Class Mail" service.

Donald S. Prater
Name (Print)

Signature



Date: October 8, 2004 I hereby certify that, on the date indicated above, I deposited this paper with identified attachments and/or fee with the U.S. Postal Service and that it was addressed for delivery to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 by "First Class Mail" service.

Donald S. Prater
Name (Print)

Donald S. Prater
Signature

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: Kimmel et al.)	Examiner: Ngoclan Thi Mai
)	
Application Number: 10/653,520)	Group Art Unit: 1742
)	
Filed: September 2, 2003)	Confirmation No.: 3339
)	
Docket No.: 00138CIPCON (3600-360-01))	

For: MODIFIED OXYGEN REDUCED VALVE METAL OXIDES

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT
PURSUANT TO 37 CFR 1.97(c)

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

October 8, 2004

Sir:

The attention of the Patent and Trademark Office is hereby directed to the documents listed on the attached Form PTO-1449. One copy of each of these documents is attached. Since this application has a filing date after June 30, 2003, no copies of U.S. Patents/Patent Application Publications are provided.

This Information Disclosure Statement is being submitted after expiration of the three-month period following filing of the above-captioned application, but before any Final Office Action or Notice of Allowance.

The above information is presented so that the Patent and Trademark Office can, in the first instance, determine any materiality thereof to the claimed invention. *See* 37 CFR 1.104(a) and 1.106(b) concerning the PTO duty to consider and use any such information. It is respectfully

requested that the information be expressly considered during the prosecution of this application,

10/13/2004 SSESHE1 00000036 030060 10653520

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Supplemental Information Disclosure Statement
U.S. Patent Application No. 10/653,520

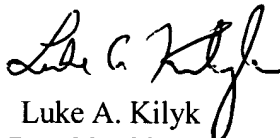
and that the documents cited in the attached Form PTO-1449 be made of record therein and appear on the first page of any patent to issue therefrom.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the listed documents are material or constitute "prior art." If the Examiner applies any of the documents as prior art against any claim in this application and applicant determines that the cited documents do not constitute "prior art" under United States law, applicant reserves the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant further reserves the right to take appropriate action to establish the patentability of the disclosed invention over the listed documents, should one or more of the documents be applied against the claims of the present application.

Please charge the fee of \$180.00 to Deposit Account No. 03-0060. If there are any other fees due in connection with the filing of this response, please charge the fees to Deposit Account 03-0060.

Respectfully submitted,


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Reg. No. 33,251

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Enclosures: PTO-1449, w/20 Documents



FORM PTO-1449 (REV 7-80)				Atty. Docket No. 00138CIPCON (3600-360-01)		Application No. 10/653,520	
INFORMATION DISCLOSURE STATEMENT				APPLICANT: Kimmel et al.			
				Filing Date: September 1, 2003		Group Art Unit: 1742	
U.S. PATENT DOCUMENTS							
EXAMINER'S INITIALS		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE, IF APPROPRIATE
		3,962,715	06/08/76	Racah et al.	357	2	
		4,118,727	10/03/78	Laplante	357	10	
		4,668,501	05/1987	Shibuta et al.	423	609	
		4,964,906	10/23/90	Fife	75	369	
		5,032,377	07/1991	Rademachers et al.	423	607	
		5,281,496	01/1994	Clarke	423	609	
		5,320,782	06/1994	Okuda et al.	423	609	
		5,688,730	11/1997	Bachelard et al.	501	96.1	
		2003/0170169 A1	09/11/03	Omori et al.	423	592.1	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION
		WO 98/19811	05/14/98	WIPO	B22F	1/00	
		1,123,015	08/07/68	GB	B22F	1/00	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	Hiraoka et al., "Electrochemical Measurement of the Standard Free Energies of Formation of Niobium Oxides," Transactions ISIJ, Vol. 11, pp. 102-106 (1971)						
	Baba et al., "Preparation and Chlorination of NbO ₂ , NbO and NbC," Journal Mining and Metallurgical Institute of Japan, Vol. 82, No. 942, pp. 855-860 (1966)						
	Steeb, et al., "NIOB und Sauerstoff," Gmelin, Niob, Part B1, Vol. 49, pp. 26-33 (1970) w/ partial English trans.						
	Mudrolyubov, "Production of tantalum capacitors in the C.I.S.," Philadelphia meeting of the TIC, pp. 3-4 (1991)						
	Andersson, "Die Bedeutung des Tantals in der Kondensatorindustrie," Erzmetall, Vol. 48, No. 6/7, pp. 430-434 (1995)						
	Brauer et al., "Die Nitride des Niobs," Z. anorg. Allg. Chemie, Vol. 270, pp. 160-178 (1952) w/ partial Engl. Trans.						
	Brauer, "Nitrides, Carbonitrides and Oxynitrides of Niobium," Journal of the less-Common Metals, Vol. 2, pp 131-137, (1960)						
	Schonberg, "Some Features of the Nb-N and Nb-N-O Systems," ACTA Chem. Scand., Vol. 8, pp. 208-212 (1954)						
	Bauer, "The Oxides of Niobium," Zeitschrift fuer anorganische und allgemeine Chemie, Vol. 248, No. 1, pp. 15-45 (1941) (English translation)						

	Gannon et al., "The Microstructure of Slightly Substoichiometric NbO ₂ ," Journal of Solid State Chemistry, Vol. 20, pp. 331-344 (1977)
	Schafer, "Über die Darstellung der Nioboxide und ihren Transport im Temperaturgefälle," Z. anorg. Allg. Chemie. Vol. 317, pp. 321-333, (1962) w/ partial English translation
	Mifune, et al., "Niobium Solid Electrolytic Capacitors," National Technical Report 1, 147, pp. 1-14, (1963) (English translation)
	Lapitskii, et al., "The formation of the lower oxides of niobium and tantalum in some reactions of reduction and oxidation," Zhurnal Neorganicheskoi Khimii, Vol. II, No. 1, pp. 80-91, (1957)
	Orlov et al., "Study of Oxygen Solubility in Niobium," Metally, No. 5, pp. 202-205 (1985)
	Brauer et al., "Mikrokristallines NbO," p. 1462, from HANDBUCH DER PRÄPARATIVEN ANORGANISCHEN CHEMIE w/ partial English translation
	Mellor, J.W., "A Comprehensive Treatise on Inorganic and Theoretical Chemistry," Vol. IX, pp. 895-896, 1947.
	Notice of Opposition for EP 1115658 B1 with English Translation filed April 2, 2004 by H.C. Stark GmbH
	Notice of Opposition for EP 1115658 B1 in English filed April 8, 2004 by Strawman Limited.
EXAMINER	DATE CONSIDERED
*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	